

CONTOPP®

XtraCem 30

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PROPERTIES

PRODUCT DESCRIPTION

Dimensionally stable hardening, ternary rapid cement for the production of fast-track cement screeds for use indoors and outdoors with a working time of up to 2 hours.

- Ready to receive tiling after 24 hours and all other floor coverings after 4 days
- Shrinkage reduced – dimensionally stable hardening
- Quickly ready to bear loads as result of high early strength
- High final strength
- Extra-long working time
- Walkable at an early stage
- Contains tracer for a subsequent half-quantitative analysis in sand/cement screeds
- Low-emission certified – EMICODE® EC1^{PLUS}



APPLICAITON AREA

- For producing bonded screeds and floating screeds in accordance with BS 8204
- For producing screeds on underfloor heating
- For damp or outside areas

TECHNICAL DATA

CHARACTERISTICS

Colour:	Grey
Detection pigment:	Red-fluorescent
Processing temperature:	+ 5 °C up to 25 °C ground-level temperature
Working time:	120 minutes
Receive final floor finish:	24 hours for ceramic tiles and non-sensitive natural stone 4 days for all other floor coverings
Strength classes:	CT-C35-F5 to CT-C50-F7
Foot traffic:	approx. 12 hours
Heating process after laying:	24 hours after completion of the screed installation
Shelf life:	approx. 12 months – protect from frost and direct sunlight
Supply form:	paper sack, net weight 25 kg

* all data based on a temperature of 20 °C and 65% RH

MIXING MODEL

per 200 l. of mortar

Mix design	1 : 6	1 : 5	1 : 4	Unit
CONTOPP® XtraCem 30	50	63	75	kg
Sand 0/8	320	310	300	kg
w/c-ratio	0.42	0.38	0.36	kg

CONSUMPTION

per m² and 10 mm

Binder	1 : 6	1 : 5	1 : 4	Unit
CONTOPP® XtraCem 30	2.5	3.1	3.7	kg

FLEXURAL STRENGTH

In accordance with DIN EN 13813

Curing time	1 : 6	1 : 5	1 : 4	Unit
28 days	F5	F6	F7	N/mm ²
7 days	F3	F4	F5	N/mm ²
1 day	F3	F3	F4	N/mm ²

COMPRESSIVE STRENGTH

In accordance with DIN EN 13813

Curing time	1 : 6	1 : 5	1 : 4	Unit
28 days	C35	C45	C50	N/mm ²
7 days	C30	C35	C45	N/mm ²
1 day	C16	C20	C30	N/mm ²

MINIMUM THICKNESS

for floating screeds on insulation and pipework covering in the case of floor-heating screeds

Load*	1 : 6	1 : 5	Unit
2 kN/m ²	45	40	mm
3 kN/m ²	60	50	mm
4 kN/m ²	70	60	mm

* Working load in accordance with DIN EN 1991-1-1

MINIMUM THICKNESS

for unbonded screeds on polythene sheet

Load*	1 : 6	1 : 5	Unit
2 kN/m ²	35	35	mm
3 kN/m ²	45	40	mm
4 kN/m ²	50	45	mm

* Vertical load capacity in accordance with DIN EN 1991-1-1

DRYING TIME*

for 50 mm installed thickness or pipework covering

Floor finish	Heated	Unheated
Tiles and impervious natural stone	≤ 2.0 CM-%	approx. 24 hours
Non-sensitive natural stone in thin, medium and thick bed	≤ 2.0 CM-%	approx. 4 days ≤ 2.0 CM-%
Wood, laminate as well as textile and elastic coverings	≤ 1.8 CM-%	approx. 4 days ≤ 2.0 CM-%

* all data based on a temperature of 20 °C and max. 65% RH

SHRINKAGE CLASS

In accordance with DIN 18560-1

Curing time	1 : 5	Unit
90 days	SW1 (low-shrinkage)	ΔL < 0.2 mm/m

PROCESSING INFORMATION

BASIC MATERIALS

- Washed screed sand A/B 8 in accordance with DIN EN 13139

PROCESSING

- All commonly used screed mixing pumps are suitable for mixing. The individual filling volumes specified by the machine manufacturers must be complied with.
- Mix the screed mortar in the desired mixing ratio according to "Mixing model" (page 1). Add approx. 25 shovels based on a mixing ratio of 1 : 4, approx. 30 shovels of sand based on a mixing ratio of 1 : 5, and approx. 35 shovels based on a mixing ratio of 1 : 6.
- The amount of water to be added depends on the sand moisture content and is normally between 10 - 14 litres per mixture. The total water content amounts to approx. 27 litres with a mixing ratio of 1 : 4 (w/c-ratio 0.36), approx. 24 litres with a mixing ratio of 1 : 5 (w/c-ratio 0.38), and approx. 21 litres with a mixing ratio of 1 : 6 (w/c-ratio 0.44).
- Do not mix in any other cements or screed additives.
- Mixing time of at least 2 minutes after addition of all constituents.
- The working time of the fresh mortar is 2 hours at 20 °C. Higher temperatures shorten the processing time and lower temperatures extend it.

CONSTRUCTION CLIMATE CONDITIONS

- Protect from draughts and direct sunlight during setting.
- Remove excess moisture through draft-free cross-ventilation (4 times a day for 20–30 minutes).
- Nature of construction and site preparation following general codes of practice.

INSTRUCTIONS ON APPLYING FLOOR COVERING

- The limit values regarding readiness for the laying of final floor finishes are based on the information given in the table "Drying time" table (page 2).
- In accordance with DIN 18560-1, the screed's residual moisture must first be measured using the CM method before the floor top covering is laid.
- According to DIN 18560-1, all types of floor finishes may be laid with a residual moisture content of 2.0 CM% for unheated systems and less than 1.8 CM% for heated systems. Tiles and non-sensitive natural stone coverings can be laid on unheated cement screed based on CONTOPP® XtraCem 30 after 24 hours without prior CM measurement.
- Where tiles are to be laid after 24 hours, the screed has only reached about 50% of its final strength. This means that no heavy loads, for example machines or pallets with tiles, are to be stored on the screed surface.

GENERAL INFORMATION

SAFETY

- When using our products, ensure that the general principles of occupational hygiene are applied.
- CONTOPP® XtraCem 30 contains cement and can therefore cause skin irritation and severe eye damage. CONTOPP® XtraCem 30 should not be handled by children. Wear protective gloves and eye protection. Ensure that the products do not come into contact with your eyes, skin or clothing.
- If product comes into contact with eyes: rinse gently with water for several minutes. If possible, remove contact lenses. Continue rinsing. In case of persistent eye irritation: seek medical advice/medical attention.
- If swallowed, seek medical advice immediately and show the physician the respective container or label.
- Store in a dry place.
- Dispose of contents/containers, REPASACK take-back system.
- GISCODE ZP1 = cement-based product, low in chromate
- The EMICODE EC 1^{PLUS} seal is the seal subject to the highest emission requirements in Germany and therefore in all cases complies at least with the requirements of the evaluation scheme for building materials as developed by the Committee for Health-related Assessment of Building Products (AgBB).

STANDARDS AND TESTING REGULATIONS

- DIN EN 13813: Screed material and floor screeds
- DIN EN 13139: Aggregates for mortar
- DIN EN 1991-1-1: General actions on structures
- DIN 18560: Floor screeds in building construction, parts 1 – 7

COMMENTS

The raw materials we process and the products we produce are subject to strict factory inspections. Do not use products from other manufacturers when using this product. It is stressed that our products and the procedure must be tested for suitability for the expected construction site conditions. The quality of screeds is essentially influenced by the quality of sand and cement, the mixing rates and the processing in accordance with approved screeding technology. Since we have no control over site conditions or construction practices, no legal liability can be derived from this technical data sheet. Upon the publication all other previous copies shall become invalid.

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